

## **Air Quality Data Update 2000-2002 PM<sub>10</sub> Air Quality Data**

The following is a brief summary of EPA's 2002 air quality update for PM<sub>10</sub> air quality monitoring data for the three year period, 2000-2002. During this current three year period,

- 12 of the 87 areas previously designated nonattainment for the PM<sub>10</sub> National Ambient Air Quality Standard (NAAQS) failed to meet the NAAQS in 2000-2002 (Table 1).<sup>5</sup>
- 16 additional areas failed to meet the PM<sub>10</sub> NAAQS in 2000-2002 (Table 2).

The PM<sub>10</sub> NAAQS consist of a short-term (24-hour) standard and a long-term (annual) standard. EPA set the 24-hour PM<sub>10</sub> standard at 150 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) not to be exceeded more than once per year on average. EPA set the annual PM<sub>10</sub> standard at 50  $\mu\text{g}/\text{m}^3$ . Compliance with both standards is judged on the basis of the most recent three years of ambient air quality monitoring data. The 24-hour PM<sub>10</sub> standard is not met at a monitoring site if the average number of estimated exceedances of the level of the standard is greater than 1.0 (1.05 rounds up). The annual PM<sub>10</sub> standard is not met at a monitoring site if the annual mean averaged over three years is greater than 50  $\mu\text{g}/\text{m}^3$  (50.5 rounds up).

Air quality data from EPA's Air Quality System (AQS) was used to calculate expected exceedances and design values. The specific calculations are explained in the notes at the end of this update. The data used for these calculations was obtained from AQS on July 9, 2003. No regulatory decisions on attainment status have been made for areas based upon these specific calculations. In some cases the data are still under review. In addition, for regulatory decisions, data not in AQS may be informative. For information concerning these data contact:

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**Table 1. Areas previously designated nonattainment for PM<sub>10</sub>**

State	Area	Status <sup>1</sup>	Annual PM <sub>10</sub> Design Value (µg/m <sup>3</sup> ) <sup>2</sup>	24-hour PM <sub>10</sub> Design Value (µg/m <sup>3</sup> ) <sup>2</sup>	Estimated Exceedances <sup>3</sup>	Meet NAAQS?
AK	Eagle River	Nonattainment	19	69	0	yes
AK	Juneau	Nonattainment	7	33	0	yes
AZ	Ajo	Nonattainment	17	50	0	yes
AZ	Bullhead City	Nonattainment	17*	56	0	yes
AZ	Douglas	Nonattainment	33*	137	0	yes
AZ	Hayden/Miami	Nonattainment	33	141	0	yes
AZ	Nogales	Nonattainment	49	213	4.4	no
AZ	Paul Spur	Nonattainment	20	63	0	yes
AZ	Payson	Nonattainment	24	88	0	yes
AZ	Phoenix	Nonattainment	66	300	30.8	no
AZ	Rillito	Nonattainment	34*	129	0	yes
AZ	Yuma	Nonattainment	44	154	0	yes
CA	Coachella Valley	Nonattainment	56	604	10.4	no
CA	Coso Junction <sup>5</sup>	Nonattainment	15	122	1.1	no
CA	Imperial Valley	Nonattainment	82	510	27	no
CA	Indian Wells <sup>5</sup>	Maintenance	22*	90	0	yes
CA	Mammoth Lakes	Maintenance	16*	134	0	yes
CA	Mono Basin	Nonattainment	81*	4482	9.7	no
CA	Owens Valley	Nonattainment	157	10960	39.2	no
CA	Sacramento County	Nonattainment	26	104	0	yes
CA	San Bernardino	Nonattainment	32	84	0	yes
CA	San Joaquin Valley	Nonattainment	52	212	6	no
CA	South Coast Air Basin	Nonattainment	60	166	1.9	no
CA	Trona <sup>5</sup>	Maintenance	20	453	1.0	yes
CO	Aspen	Maintenance	19*	90	0	yes
CO	Canon City	Maintenance	16	133	0	yes
CO	Denver	Maintenance	37	134	0	yes
CO	Lamar	Nonattainment	30*	137	0	yes
CO	Pagosa Springs	Maintenance	15*	123	0.3	yes
CO	Steamboat Springs	Nonattainment	24	98	0	yes
CO	Telluride	Maintenance	18*	67	0	yes
CT	New Haven	Nonattainment	34	93	0	yes
ID	Boise	Former	30	92	0	yes
		Nonattainment Area <sup>4</sup>				
ID	Fort Hall	Nonattainment	41	251	4.3	no
ID	Pinehurst	Nonattainment	9*	40	0	yes
ID	Portneuf Valley	Nonattainment	26	141	0	yes
ID	Sandpoint(Bonner County)	Nonattainment	14*	94	0	yes
ID	Shoshone County	Nonattainment	19*	68	0	yes
IL	Granite City	Maintenance	46	138	0.3	yes
IL	Lyons Township	Nonattainment	36	124	0	yes
IL	Oglesby	Maintenance	25	110	0	yes
IL	Southeast Chicago	Nonattainment	33*	92	0	yes
IN	Lake County	Maintenance	31	148	0.7	yes
IN	Vermillion	Maintenance				
ME	Presque Isle	Maintenance	13	87	0	yes
MI	Detroit	Maintenance	38	146	0	yes
MN	Rochester	Maintenance				

MN	Saint Paul	Nonattainment	35	102	0	yes
MT	Butte	Nonattainment	17*	69	0	yes
MT	Columbia Falls	Nonattainment	15	74	0	yes
MT	Kalispell	Nonattainment	21	69	0	yes
MT	Lame Deer	Nonattainment	29*	137	0.3	yes
MT	Libby	Nonattainment	25*	110	0	yes
MT	Missoula	Nonattainment	15*	69	0	yes
MT	Polson	Nonattainment	20	86	0	yes
MT	Ronan	Nonattainment	18*	68	0	yes
MT	Thompson Falls	Nonattainment	17*	75	0	yes
MT	Whitefish	Nonattainment	11*	98	0	yes
NM	Anthony	Nonattainment	31	101	0	yes
NV	Las Vegas	Nonattainment	48	188	1.8	no
NV	Reno	Nonattainment	43	113	0	yes
NY	New York	Nonattainment	11*	77	0	yes
OH	Cuyahoga County	Maintenance	41	169	0.3	yes
OH	Mingo Junction	Maintenance	31	86	0	yes
OR	Eugene/Springfield	Nonattainment	19	66	0	yes
OR	Grants Pass	Nonattainment	12*	54	0	yes
OR	Klamath Falls	Nonattainment	18*	92	0	yes
OR	La Grande	Nonattainment	20*	87	0	yes
OR	Lakeview	Nonattainment	18*	100	0	yes
OR	Medford	Nonattainment	26*	79	0	yes
OR	Oakridge	Nonattainment	19	89	0	yes
PA	Clairton	Nonattainment	39	136	0	yes
PR	Guaynabo	Nonattainment	30	102	0	yes
TX	El Paso	Nonattainment	39	534	7.4	no
UT	Ogden	Nonattainment	17*	106	0	yes
UT	Salt Lake County	Nonattainment	44	121	0	yes
UT	Utah County	Nonattainment	33	101	0	yes
WA	Kent	Maintenance	12*	51	0	yes
WA	Olympia	Maintenance	15	60	0	yes
WA	Seattle	Maintenance	23*	73	0	yes
WA	Spokane	Nonattainment	29	98	0	yes
WA	Tacoma	Maintenance	23	94	0	yes
WA	Wallula	Nonattainment	30	134	0	yes
WA	Yakima	Nonattainment	15*	64	0	yes
WV	Follansbee	Nonattainment	27	68	0	yes
WV	Weirton	Nonattainment	31	103	0	yes
WY	Sheridan	Nonattainment	30*	118	0	yes

**Table 2. Additional areas failing to meet the PM<sub>10</sub> NAAQS in 2000-2002**

State	Area	Annual PM <sub>10</sub> Design Value (µg/m <sup>3</sup> ) <sup>2</sup>	24-hour PM <sub>10</sub> Design Value (µg/m <sup>3</sup> ) <sup>2</sup>	Estimated Exceedances <sup>3</sup>
AL	Jefferson County	38	174	2
CA	Kern County	21	208	2.2
CA	San Luis Obispo County	23	178	2.2
FL	Hamilton County	14*	217	1.9
ID	Bingham County	36*	168	2.4
MN	Kandiyohi County	27*	255	2.9
MO	Jasper County	37*	403	11.4
MO	St. Louis city	31*	224	10.5
NE	Douglas County	43	180	1.8
NJ	Union County	32*	156	2.4
NV	Clark County	18	204	1.1
OK	Muskogee County	31*	176	2
PA	Philadelphia County	30	290	2.8
WA	Stevens County	36	263	3.2
WY	Campbell County	32	290	2.4
WY	Sweetwater County	23	312	4.1

Notes:

<sup>1</sup> Areas that have demonstrated compliance with the NAAQS since their original nonattainment designation are called “Maintenance” areas.

<sup>2</sup> The updated design values are computed for the 2000-2002 period using federal reference or equivalent PM<sub>10</sub> data reported by the Tribes and the State and local governments to EPA's Air Quality System (AQS) as of July 9, 2003. Concentrations flagged by States and Tribes as natural events (e.g. high winds, wildfires, volcanic eruptions) or exceptional events (e.g. construction, prescribed burning) are not included in the calculation of these design values. The computation procedures follow EPA guidance for calculating design values (40 CFR Part 50 Appendix K and the *PM<sub>10</sub> SIP Development Guideline* EPA 450/2-86-001). **No regulatory decisions on attainment status have been made for areas based upon this data. In some cases the data is still under review.**

<sup>3</sup> The sampling schedule used in this calculation is the mode of the gap between samples in each calendar quarter. (The sampling schedule is used in the calculation of estimated exceedances.)

<sup>4</sup> In March of 1999, EPA revoked the nonattainment designation and PM<sub>10</sub> National Ambient Air Quality Standard for this area.

<sup>5</sup> On August 6, 2002, EPA finalized certain actions affecting the Searles Valley, California, PM-10 nonattainment area, which is located in the rural high desert and includes portions of Inyo, Kern, and San Bernardino Counties. The action splits the Searles Valley nonattainment area into three separate areas: Coso Junction, Indian Wells Valley and Trona. EPA's action also determines that the Trona area attained the PM-10 standards by December 31, 1994. On May 7, 2003, EPA finalized approval of the Indian Wells Moderate Area and Maintenance Plan and redesignated the area from nonattainment to attainment for particulate matter (PM-10).

Source: <http://www.epa.gov/region9/air/searlespm/index.html>

\* This annual mean is based on incomplete data according to 40 CFR Part 50 Appendix K. There are no other sites in the area with complete data for this three-year period. Therefore, the highest annual mean among the incomplete sites was selected to represent the area for the given time period.

ND = No Data